Access DB# 104499

# SEARCH REQUEST FORM

Scientific and Technical Information Center

An Unit: 1854 Phone?  Mail Box and Bldg/Room Location  Mile Box an	nitted, please prioritizes *********** search topic, and describe seywords, synonyms, acroi that may have a special m sheet, pertinent claims, and	Serial Number: 20/083,078  ults Format Preferred (circle): PAPER DISK E-MAIL  ze searches in order of need.  **********************************
Inventors (please provide full names):	<u> </u>	18 had Of Ireatment OT Cancer
	<u>J</u> .	
*For Sequence Searches Only * Please inclu		(parent, child, divisional, or issued patent numbers) along with the
appropriate serial number.		iparent, entia, atvisionati-or issuea patent numbers) along with the
Please search the for	Mowing partial	structure, ignoring the sidectain
10 15	Y OH HO CH R <sup>6</sup> N-CH HO CH R <sup>7</sup> N-CH	$ \begin{array}{ccc} R^1 \\ R^2 \\ C \\ NH & O \end{array} $ $ \begin{array}{cccc} R^4 \\ C \\ O \end{array} $
Point of Contact P. Sheppard Telephone number: (703) 308-4-	ugat ? 3.	keywords cancer, tumor, cardnoma, Thank you. And
STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher	NA Sequence (=)	STN
Searcher Phone #	AA Sequence (=)	Dialog
Searcher Location	Structure (#)	Queste: Orbit
Date Searcher Proventing	Bibliographic	
Date Propreted 4/25/03		
Searcher Prep & Regiew Time	Fullex	nequence Systems
C'enta Prop Time	Patent Family	WWW Internet
On the Time	Other	Other (Specific)
P7 \$97 - 1.23/11		

=> file hcaplus FILE 'HCAPLUS' ENTERED AT 11:49:58 ON 25 SEP 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 25 Sep 2003 VOL 139 ISS 13 FILE LAST UPDATED: 24 Sep 2003 (20030924/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
MLEVEL IS CLASS AT 14 15 16
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS UNLIMITED AT 14 15 16

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

L3 22 SEA FILE=REGISTRY SSS FUL L1

L4 65 SEA FILE=HCAPLUS ABB=ON PLU=ON L3

L5 10 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 AND (?CANCER? OR ?TUMOR? OR ?CARCIN? OR ?MALIGNA? OR ?NEOPLAS? OR CONJUGAT?)

=> d ibib abs hitrn 1-10

ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:869496 HCAPLUS

DOCUMENT NUMBER: 137:363033

TITLE: Peptidomimetic modulators of cell adhesion

INVENTOR(S): Gour, Barbara J.; Blaschuk, Orest W.; Ali, Anmar; Ni,

Feng; Chen, Zhigang; Michaud, Stephanie D.; Wang,

Shoameng; Hu, Zenjian

PATENT ASSIGNEE(S): Can.

SOURCE: U.S. Pat. Appl. Publ., 309 pp., Cont.-in-part of U.S.

Ser. No. 491,078.

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND APPLICATION NO. DATE DATE \_\_\_\_\_\_ US 2002168761 A1 20021114 US 2001-769145 20010124 PRIORITY APPLN. INFO.: US 2000-491078 A2 20000124

OTHER SOURCE(S): MARPAT 137:363033

Peptidomimetics of cyclic peptides, and compns. comprising such peptidomimetics are provided. The peptidomimetics have a three-dimensional structure that is substantially similar to a three-dimensional structure of a cyclic peptide that comprises a cadherin cell adhesion recognition sequence HAV. Methods for using such peptidomimetics for modulating cadherin-mediated cell adhesion in a variety of contexts are also provided.

351858-59-8, Aspartic acid, (.beta.R)-3-chloro-.beta.,5-dihydroxy-N-methyl-D-tyrosyl-3,4-didehydro-L-valyl-3-hydroxy-L-isoleucyl-3,4didehydro-L-prolyl-2,3-didehydroisoleucyl-2,3-didehydro-, cyclic (15.fwdarw.3)-ether

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(peptidomimetic modulators of cadherin-mediated cell adhesion for therapeutic use in relation to three-dimensional structure)

ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:545724 HCAPLUS

DOCUMENT NUMBER:

135:147398

TITLE:

INVENTOR(S):

Peptidomimetic modulators of cell adhesion

Gour, Barbara J.; Blaschuk, Orest W.; Ali, Anmar; Ni, Feng; Chen, Zhigang; Michaud, Stephanie Denise; Wang,

Shoameng; Hu, Zengjian

PATENT ASSIGNEE(S):

Adherex Technologies, Inc., Can.

SOURCE:

PCT Int. Appl., 416 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001053331	A2	20010726	WO 2001-US2508	20010124

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WO 2001053331
                               A3
                                      20020711
       WO 2001053331
                                      20021031
                               C2
                 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
                  CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
                 HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
            No. 10, EV, MA, MD, MG, MK, MN, MM, MZ, NC, NZ, FL, FT, RC, RC, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

APPLN. INFO::

US 2000-491078 A 20000124
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
                                  MARPAT 135:147398
       Peptidomimetics of cyclic peptides, and compns. comprising such
      peptidomimetics are provided. The peptidomimetics have a
       three-dimensional structure that is substantially similar to a
      three-dimensional structure of a cyclic peptide that comprises a cadherin
       cell adhesion recognition sequence HAV. Methods for using such
      peptidomimetics for modulating cadherin-mediated cell adhesion in a
       variety of contexts are also provided.
IT
       351858-59-8
       RL: BAC (Biological activity or effector, except adverse); BSU (Biological
       study, unclassified); PEP (Physical, engineering or chemical process); PRP
       (Properties); THU (Therapeutic use); BIOL (Biological study); PROC
       (Process); USES (Uses)
           (peptidomimetic modulators of cell adhesion)
      ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:
                                  2001:247198 HCAPLUS
DOCUMENT NUMBER:
                                  134:261242
TITLE:
                                  Phomopsin anticancer agents and treatment
                                  method
INVENTOR(S):
                                  Edgar, John Alexander
PATENT ASSIGNEE(S):
                                  Commonwealth Scientific and Industrial Research
                                  Organisation, Australia
SOURCE:
                                  PCT Int. Appl., 28 pp.
                                  CODEN: PIXXD2
DOCUMENT TYPE:
                                  Patent
LANGUAGE:
                                  English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
      PATENT NO.
                              KIND DATE
                                                          APPLICATION NO. DATE
      WO 2001022986
                              A1 20010405
                                                          WO 2000-AU1193
                                                                                  20000929
            W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
                 CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
                 HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
            SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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EP 2000-969057 20000929

20000929

JP 2001-526195

AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

EP 1216051

JP 2003510287

A1 20020626

IE, SI, LT, LV, FI, RO, MK, CY, AL

T2 20030318

PRIORITY APPLN. INFO.: AU 1999-3148 19990929 Α WO 2000-AU1193 20000929 OTHER SOURCE(S): MARPAT 134:261242 A method of treatment of a patient suffering from cancer comprises administering to the patient an effective amt. of a phomopsin. IT 64925-80-0P, Phomopsin A RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (phomopsin anticancer agents) 89085-54-1P, Phomopsinamine A 332094-78-7P ΤT RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (phomopsin anticancer agents) IT 110580-02-4 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (phomopsin anticancer agents) REFERENCE COUNT: THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN ACCESSION NUMBER: 1998:753888 HCAPLUS DOCUMENT NUMBER: 130:152150 TITLE: Towards a commercial vaccine against lupinosis AUTHOR(S): Edgar, J. A.; Than, K. A.; Payne, A. L.; Anderton, N.; Baell, J.; Cao, Y.; Cockrum, P. A.; Michalewicz, A.; Stewart, P. L.; Allen, J. G. CORPORATE SOURCE: CSIRO Division of Animal Health, Australian Animal Health Laboratory, Geelong, 3220, Australia SOURCE: Toxic Plants and Other Natural Toxicants, [Proceedings of the International Symposium on Poisonous Plants], 5th, San Angelo, Tex., May 18-23, 1997 (1998), Meeting Date 1997, 196-200. Editor(s): Garland, Tam; Barr, A. Catherine. CAB International: Wallingford, UK. CODEN: 66ZXA6 DOCUMENT TYPE: Conference; General Review LANGUAGE: English A review and discussion with 4 refs. Lupinosis is caused by phomopsin mycotoxins produced by a fungus, Diaporthe toxica, that infects and colonizes lupines. The authors discuss an immunogen made by conjugating phomopsin A to keyhole limpet hemocyanin as an effective vaccine against the livestock poisoning disease lupinosis. considerable amt. of work has been conducted since then, aimed at converting the exptl. vaccine into a com. product. Topics included are: prodn. and conjugation of phomopsins; min. ED of phomopsin A per injection; and vaccination protocol and protection studies. 64925-80-0, Phomopsin A RL: ADV (Adverse effect, including toxicity); BIOL (Biological study) (com. vaccine against lupinosis in livestock) REFERENCE COUNT: THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN ACCESSION NUMBER: 1998:297640 HCAPLUS

DOCUMENT NUMBER: 129:38537

TITLE: Isolation and structure of an antimitotic cyclic

peptide, ustiloxin F: chemical interrelation with a

homologous peptide, ustiloxin B

AUTHOR(S): Koiso, Yukiko; Morisaki, Naoko; Yamashita, Yukiko;

Mitsui, Yukiko; Shirai, Ryuichi; Hashimoto, Yuichi;

Iwasaki, Shigeo

CORPORATE SOURCE: Institute of Molecular and Cellular Biosciences, The

University of Tokyo, Tokyo, 113-0032, Japan

SOURCE: Journal of Antibiotics (1998), 51(4), 418-422

CODEN: JANTAJ; ISSN: 0021-8820

PUBLISHER: Japan Antibiotics Research Association

DOCUMENT TYPE: Journal LANGUAGE: English

AB Ustiloxin F, a microtubule inhibitor, was isolated as a minor metabolite of Ustilaginoidea virens. The structure was detd. from the spectral data and by chem. interrelation to ustiloxin B through reductive removal of the sulfoxide-contg. side chain of ustiloxin B to give ustiloxin F. Ustiloxin F inhibited microtubule assembly with an IC50 value of 10.3 .mu.M.

IT 143557-93-1, Ustiloxin A

RL: RCT (Reactant); RACT (Reactant or reagent) (conversion of ustiloxin A to ustiloxin D)

IT 158243-18-6P, Ustiloxin D

RL: SPN (Synthetic preparation); PREP (Preparation)

(conversion of ustiloxin A to ustiloxin D)

IT 151841-41-7, Ustiloxin B

RL: RCT (Reactant); RACT (Reactant or reagent)

(conversion of ustiloxin B to ustiloxin F)

IT 208392-87-4P, Ustiloxin F

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); SPN (Synthetic preparation); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)

(isolation, mol. structure and biol. activity of ustiloxin F)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1995:698898 HCAPLUS

DOCUMENT NUMBER: 123:283737

TITLE: Ustiloxins manufacture with Ustilaginoidea as

neoplasm inhibitors

INVENTOR(S): Iwasaki, Shigeo; Koiso, Kuniko

PATENT ASSIGNEE(S): Sankyo Co, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 07101983 A2 19950418 JP 1993-251327 19931007
PRIORITY APPLN. INFO.: JP 1993-251327 19931007
GI

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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
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AΒ Ustiloxins, ustiloxin C (I) and D (II), are manufd. by culturing Ustilaginoidea virens. I and II inhibit polymn. of tublin and useful as neoplasm inhibitors. The physicochem. characteristics of I and II and the physiol. and morphol. characteristics of Ustilaginoidea virens were given.

IT 158243-18-6P, Ustiloxin D 158274-98-7P, Ustiloxin C RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (ustiloxins manuf. with Ustilaginoidea as neoplasm inhibitors)

ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1994:473249 HCAPLUS

DOCUMENT NUMBER: 121:73249

TITLE: Increase in the chemically-induced differentiation of

human leukemia cell lines by tubulin disruptors

Nakajima, Osamu; Sugishita, Yasuko; Hashimoto, Yuichi; AUTHOR(S):

Iwasaki, Shigeo

Inst. Mol. Cellular Biosciences, University Tokyo, CORPORATE SOURCE:

Tokyo, 113, Japan

SOURCE: Biological & Pharmaceutical Bulletin (1994), 17(5),

742 - 4

CODEN: BPBLEO; ISSN: 0918-6158

DOCUMENT TYPE: Journal

LANGUAGE: English

The effect of various structural functional tubulin disruptors (including colchicine-type disruptors, vinblastine, rhizoxin, maytansine, peptide-type disruptors, and taxol) on the chem. induced differentiation of human leukemia cell lines (HL-60 and K562) was examd. As differentiation-inducing agents, 12-0-tetradecanoylphorbol-13-acetate (TPA) was used for the differentiation of both HL-60 and K562 to monocyte/macrophages, retinoids were used for the differentiation of HL-60 to mature granulocytes, and hemin was used for the erythroid differentiation of K562. All the tubulin disruptors investigated increased the chem.-induced differentiation of HL-60 and K562 cell lines to the cognate mature cell types, regardless of the nature of the differentiation.

TΨ 64925-80-0, Phomopsin A 143557-93-1, Ustiloxin RL: BIOL (Biological study)

(chem. induced leukemia cell differentiation increase by, of humans, as tubulin disruptor)

ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1994:158265 HCAPLUS

DOCUMENT NUMBER: 120:158265

TITLE: Mitotic poison, ustiloxin, from false smut balls on

rice plant, and a related peptide: structure and

activities

AUTHOR(S):

Koiso, Y.; Li, Y.; Kobayashi, H.; Natori, M.; Hashimoto, Y.; Iwasaki, S.; Fujita, Y.; Sonoda, R.;

Yaegashi, H.; et al.

CORPORATE SOURCE:

Inst. Appl. Microbiol., Univ. Tokyo, Tokyo, 113, Japan SOURCE:

Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1992),

34th, 566-573

CODEN: TYKYDS

DOCUMENT TYPE: LANGUAGE:

Journal

Japanese

AΒ The false smutted balls growing parasitically on panicles of rice plant (Ina-koji) are caused by a pathogen, Ustilaginoidea virens. Ingestion of such rice plant caused poisoning to domestic animals. Deep red pigments, ustilaginoidins, have been isolated from the ether ext. of the balls but these compds. were not the causative compds. as the phytotoxin or the mycotoxin. The authors report on the isolation, the structure and the biol. activities of a toxin, ustiloxin(I), which was isolated from the water ext. of the balls, as well as on the mode of action of a mycotoxin, phomopsin A, whose structure is closely related to that of I. Abs. structure of I was detd. to be a unique cyclic tetra peptide contg. a 13-membered ring including an ether linkage, by combination of spectroscopic, amino acid and X-ray crystallog. analyses. The compd. induces an abnormal swelling of the seedling roots. Such a symptom is induced also by rhizoxin, a potent antimitotic agent. I strongly inhibits the polymn. of porcine brain tubulin and also shows potent cytotoxicity against broad range of tumor cells. Phomopsin A, structurally similar to I, is also a potent antimitotic agent and inhibits tubulin polymn. Its binding site on porcine brain tubulin was identical with that of rhizoxin and maytansine. Phomopsin A does not bind to fungal tubulin and shows no antifungal activity, whereas rhizoxin and maytansine are potent fungicides.

IT64925-80-0, Phomopsin A 143557-93-1, Ustiloxin RL: BIOL (Biological study) (mol. structure and biol. activities of)

ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER:

1994:14886 HCAPLUS

DOCUMENT NUMBER:

120:14886

TITLE:

Manufacture of tetrapeptide derivative, ustiloxin A or B, with Ustilaginoidea virens (Cooke) Takahashi SANK

15391 and synthesis of derivative thereof as

antitumor agent

INVENTOR(S):

Iwasaki, Shigeo; Koiso, Kuniko; Kobayashi, Tomowo

PATENT ASSIGNEE(S):

Sankyo Co., Ltd., Japan

SOURCE:

PCT Int. Appl., 28 pp.

DOCUMENT TYPE:

CODEN: PIXXD2 Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	ENT NO.	KIND	DATE	APPLICATION NO	. DATE	
WO	9314111	A1	19930722	WO 1993-JP18	19930108	
	RW: AT,	BE, CH, DE,	DK, ES,	FR, GB, GR, IE, IT,	LU, MC, NL, PT, SE	
JP	05345796	A2	19931227	JP 1993-988	19930107	
JP :	3276187	B2	20020422			
AU	9332665	A1	19930803	AU 1993-32665	19930108	
PRIORITY	APPLN. I	NFO.:		JP 1992-1139	A 19920108	
				WO 1993-JP18	A 19930108	
CIT.						

GΙ

I

The title peptide derivs. (I; R1 = H, C1-5 alkyl; R2 = H, C2-6 alkyl, aliph. acyl; R3 = Me, Pr) or their salts are prepd. Thus, ustiloxin A (I; R1 = R2 = H, R3 = Me) and ustiloxin B I (R1 = R2 = H, R3 = Pr) were isolated from the water ext. of false smut balls caused by Ustilaginoidea virens on the panicles of rice plants. Esterification of ustiloxin A with 12% methanolic HCl at 4.degree. overnight gave ustiloxin A di-Me ester dihydrochloride. Ustiloxin A and B showed IC50 of 2.46 and 2.85 .mu.g/mL, resp., against stomach cancer MKN-1 cells, and 0.656 and 1.38 .mu.g/M1, resp., against breast cancer MCF-7 cells, which were as potent as 5-fluorouracil.

IT 143557-93-1 151841-41-7, Ustiloxin B

RL: PROC (Process)

(from Ustilaginoidea virens-infected rice panicles, isolation of, as antitumor agent)

IT 151586-08-2P, Ustiloxin A dimethyl ester dihydrochloride
151586-09-3P

RL: THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of, as antitumor agent)

L5 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER:

1990:470858 HCAPLUS

DOCUMENT NUMBER:

113:70858

TITLE:

Dolastatin 10, a powerful cytostatic peptide derived from a marine animal. Inhibition of tubulin

polymerization mediated through the vinca alkaloid

binding domain

AUTHOR(S): Bai, Ruoli; Pettit, George R.; Hamel, Ernest CORPORATE SOURCE: Lab. Biochem. Pharmacol., Natl. Cancer Inst.,

Bethesda, MD, 20892, USA

Biochemical Pharmacology (1990), 39(12), 1941-9

CODEN: BCPCA6; ISSN: 0006-2952

DOCUMENT TYPE:

SOURCE:

Journal LANGUAGE: English

Dolastatin 10, a cytostatic peptide contg. several unique amino acid subunits, was isolated from the marine shell-less mollusk Dolabella auricularia. Since preliminary studies demonstrated that dolastatin 10 inhibited tubulin polymn. and the binding of radiolabeled vinblastine to tubulin, an initial characterization of the properties of dolastatin 10 included a comparison to other antimitotic drugs interfering with vinca alkaloid binding to tubulin (vinblastine, maytansine, rhizoxin, and phomopsin A). Dolastatin 10 inhibited the growth of L1210 murine leukemia cells in culture, with a concordant rise in the mitotic index, and its IC50 value for cell growth was 0.5 nM. Comparable values for the other drugs were 0.5 nM for maytansine, 1 nM for rhizoxin, 20 nM for vinblastine, and 7 .mu.M for phomopsin A. IC50 values were also obtained for the polymn. of purified tubulin in glutamate: 1.2 .mu.M for dolastatin 10, 1.4 .mu.M for phomopsin A, 1.5 .mu.M for vinblastine, 3.5 .mu.M for maytansine, and 6.8 .mu.M for rhizoxin. Dolastatin 10 and vinblastine were comparable in their effects on microtubule assembly dependent on microtubule-assocd. proteins. Preliminary studies indicated that dolastatin 10, like vinblastine, causes formation of a cold-stable tubulin aggregate at higher drug concns. Results confirmed that rhizoxin, phomopsin A, and maytansine also inhibit the binding of radiolabeled vinblastine and vincristine to tubulin. Dolastatin 10 and phomopsin A were the strongest inhibitors of these reactions, and rhizoxin the weakest. Dolastatin 10, phomopsin A, maytansine, vinblastine, and rhizoxin all inhibited tubulin-dependent GTP hydrolysis. The greatest inhibition of hydrolysis was obsd. with dolastatin 10 and phomopsin A, and the least inhibition with rhizoxin.

IT 64925-80-0, Phomopsin A

RL: BIOL (Biological study)

(tubulin polymn. inhibition by dolastatin 10 vs.)

=> file reg FILE 'REGISTRY' ENTERED AT 11:51:28 ON 25 SEP 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 24 SEP 2003 HIGHEST RN 592465-25-3 DICTIONARY FILE UPDATES: 24 SEP 2003 HIGHEST RN 592465-25-3

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> d ide can 13 1-22

L3 ANSWER 1 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 351858-59-8 REGISTRY

CN Aspartic acid, (.beta.R)-3-chloro-.beta.,5-dihydroxy-N-methyl-D-tyrosyl-3,4-didehydro-L-valyl-3-hydroxy-L-isoleucyl-3,4-didehydro-L-prolyl-2,3-didehydroisoleucyl-2,3-didehydro-, cyclic (15.fwdarw.3)-ether (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C36 H45 Cl N6 O12

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry.
Double bond geometry unknown.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:363033

REFERENCE 2: 135:147398

L3 ANSWER 2 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 332094-78-7 REGISTRY

CN Aspartic acid, (.beta.S)-3-chloro-.beta.,5-dihydroxy-N-methyl-L-tyrosyl-

3,4-didehydro-L-valyl-3-hydroxy-L-isoleucyl-3,4-didehydro-L-prolyl-(2E)-2,3-didehydroisoleucyl-2,3-didehydro-, cyclic (15.fwdarw.3)-ether, (2Z)-(9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C36 H45 C1 N6 O12

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry. Double bond geometry as shown.

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

#### REFERENCE 1: 134:261242

L3 ANSWER 3 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 221679-24-9 REGISTRY

CN Glycine, (.beta.R)-N-ethyl-.beta.,3-dihydroxy-N-methyl-L-tyrosyl-L-valyl-3-hydroxy-L-isoleucyl-, ethyl ester, cyclic (13.fwdarw.3)-ether (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C27 H42 N4 O8

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

#### REFERENCE 1: 130:252635

L3 ANSWER 4 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 221679-23-8 REGISTRY

CN Glycine, (.beta.R)-N-ethyl-.beta.,3-dihydroxy-N-methyl-L-tyrosyl-L-valyl-3-hydroxy-L-isoleucyl-, cyclic (13.fwdarw.3)-ether (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C25 H38 N4 O8

SR CA

LC STN Files: CA, CAPLUS

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

### Absolute stereochemistry.

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

## REFERENCE 1: 130:252635

L3 ANSWER 5 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 221679-22-7 REGISTRY

CN Glycine, (.beta.R)-.beta.,3-dihydroxy-N-methyl-L-tyrosyl-L-valyl-3-hydroxy-L-isoleucyl-, methyl ester, cyclic (13.fwdarw.3)-ether (9CI) (CA INDEX

NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C24 H36 N4 O8

SR CA

LC STN Files: CA, CAPLUS

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 130:252635

L3 ANSWER 6 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 208392-87-4 REGISTRY

CN Ustiloxin F

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C21 H30 N4 O8

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry. Rotation (-).

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 130:252635

REFERENCE 2: 129:41400

REFERENCE 3: 129:38537

L3 ANSWER 7 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 207792-23-2 REGISTRY

CN 2-0xa-5,8-diazabicyclo[10.3.1]hexadeca-1(16),12,14-triene-4-carboxamide, 3-ethyl-11,15-dihydroxy-N-(2-hydroxyethyl)-3-methyl-10-(methylamino)-7-(1-methylethyl)-6,9-dioxo-, (3R,4S,7S,10S,11R)- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C23 H36 N4 O7

SR CA

LC STN Files: CA, CAPLUS

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:41400

- L3 ANSWER 8 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN
- RN 207792-21-0 REGISTRY
- CN Glycine, (.beta.R)-.beta.,3-dihydroxy-N,N-dimethyl-L-tyrosyl-L-valyl-3-hydroxy-L-isoleucyl-, ethyl ester, cyclic (13.fwdarw.3)-ether (9CI) (CA INDEX NAME)
- FS PROTEIN SEQUENCE; STEREOSEARCH
- MF C26 H40 N4 O8
- SR CA
- LC STN Files: CA, CAPLUS
- \*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry.

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 130:252635

REFERENCE 2: 129:41400

- L3 ANSWER 9 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN
- RN 207792-20-9 REGISTRY
- CN Glycine, (.beta.R)-.beta.,3-dihydroxy-N-methyl-L-tyrosyl-L-valyl-3-hydroxy-L-isoleucyl-, ethyl ester, cyclic (13.fwdarw.3)-ether (9CI) (CA INDEX NAME)
- FS PROTEIN SEQUENCE; STEREOSEARCH
- MF C25 H38 N4 O8
- SR CA
- LC STN Files: CA, CAPLUS

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry.

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 130:252635

REFERENCE 2: 129:41400

L3 ANSWER 10 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 175617-09-1 REGISTRY

CN Phomopsin D (9CI) (CA INDEX NAME)

OTHER NAMES:

CN L-Aspartic acid, 3-chloro-erythro-.beta.,5-dihydroxy-N-methyl-L-tyrosyl-3,4-didehydro-L-valyl-3-hydroxy-L-isoleucyl-3,4-didehydro-L-prolyl-(E)-2,3-didehydroisoleucyl-, cyclic (15.fwdarw.3)-ether

FS PROTEIN SEQUENCE

MF C36 H47 C1 N6 O12

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

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1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 124:315326

L3 ANSWER 11 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 158274-98-7 REGISTRY

CN Glycine, (.beta.R)-.beta.,5-dihydroxy-2-[(R)-(2-hydroxyethyl)sulfinyl]-N-methyl-L-tyrosyl-L-valyl-3-hydroxy-L-isoleucyl-, cyclic

(15.fwdarw.3)-ether (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-0xa-5,8-diazabicyclo[10.3.1]hexadecane, cyclic peptide deriv.

CN Glycine, threo-.beta.,5-dihydroxy-2-[(2-hydroxyethyl)sulfinyl]-N-methyl-L-tyrosyl-L-valyl-3-hydroxy-L-isoleucyl-, cyclic (15.fwdarw.3)-ether, (R)-OTHER NAMES:

CN Ustiloxin C

FS PROTEIN SEQUENCE

MF C23 H34 N4 O10 S

SR CA

LC STN Files: CA, CANCERLIT, CAPLUS, MEDLINE, TOXCENTER

HO Me 
$$C-NH-CH_2-CO_2H$$
 $N \rightarrow 0$ 
 $N \rightarrow$ 

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:41400

REFERENCE 2: 123:283737

REFERENCE 3: 123:25336

REFERENCE 4: 121:225960

L3 ANSWER 12 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 158243-18-6 REGISTRY

CN Glycine, (.beta.R)-.beta.,3-dihydroxy-N-methyl-L-tyrosyl-L-valyl-3-hydroxy-L-isoleucyl-, cyclic (13.fwdarw.3)-ether (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-0xa-5,8-diazabicyclo[10.3.1]hexadecane, cyclic peptide deriv.

CN Glycine, threo-.beta.,3-dihydroxy-N-methyl-L-tyrosyl-L-valyl-3-hydroxy-L-isoleucyl-, cyclic (13.fwdarw.3)-ether

OTHER NAMES:

CN Ustiloxin D

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C23 H34 N4 O8

SR CA

LC STN Files: BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAPLUS, CASREACT, MEDLINE, TOXCENTER

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry.

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

10 REFERENCES IN FILE CA (1907 TO DATE)

10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:85641

REFERENCE 2: 136:200467

REFERENCE 3: 136:6316

REFERENCE 4: 134:17720

REFERENCE 5: 130:252635

REFERENCE 6: 129:41400

REFERENCE 7: 129:38537

REFERENCE 8: 123:283737

REFERENCE 9: 123:25336

REFERENCE 10: 121:225960

L3 ANSWER 13 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 151841-41-7 REGISTRY

CN Glycine, (.beta.R)-2-[(R)-[(2S,4S)-4-amino-4-carboxy-2-hydroxybutyl]sulfinyl]-.beta.,5-dihydroxy-N-methyl-L-tyrosyl-L-alanyl-3-hydroxy-L-isoleucyl-, cyclic (15.fwdarw.3)-ether (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:

CN 2-0xa-5,8-diazabicyclo[10.3.1]hexadecane, cyclic peptide deriv.

CN Glycine, 2-[(4-amino-4-carboxy-2-hydroxybuty1)sulfiny1]-threo-.beta.,5-dihydroxy-N-methy1-L-tyrosy1-L-alany1-3-hydroxy-L-isoleucy1-, cyclic (15.fwdarw.3)-ether, [2S-[1(S\*),2R\*,4R\*]]-

OTHER NAMES:

CN Ustiloxin B

FS PROTEIN SEQUENCE

MF C26 H39 N5 O12 S

SR CA

LC STN Files: BIOBUSINESS, BIOSIS, CA, CAPLUS, TOXCENTER

6 REFERENCES IN FILE CA (1907 TO DATE)

6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:41400

REFERENCE 2: 129:38537

REFERENCE 3: 126:264317

REFERENCE 4: 123:25336

REFERENCE 5: 121:225960

REFERENCE 6: 120:14886

L3 ANSWER 14 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 151586-09-3 REGISTRY

CN Glycine, 2-[[4-(acetylamino)-4-carboxy-2-hydroxybutyl]sulfinyl]-threo-.beta.,5-dihydroxy-N-methyl-L-tyrosyl-L-valyl-3-hydroxy-L-isoleucyl-, cyclic (15.fwdarw.3)-ether, disodium salt, [2S-[1(S\*),2R\*,4R\*]]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-0xa-5,8-diazabicyclo[10.3.1]hexadecane, cyclic peptide deriv.

FS PROTEIN SEQUENCE

MF C30 H45 N5 O13 S . 2 Na

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

#### •2 Na

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 120:14886

L3 ANSWER 15 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 151586-08-2 REGISTRY

CN Glycine, 2-[(4-amino-2-hydroxy-5-methoxy-5-oxopentyl)sulfinyl]-threo-beta.,5-dihydroxy-N-methyl-L-tyrosyl-L-valyl-3-hydroxy-L-isoleucyl-, methyl ester, cyclic (15.fwdarw.3)-ether, dihydrochloride, [2S-[1(S\*),2R\*,4R\*]]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-0xa-5,8-diazabicyclo[10.3.1]hexadecane, cyclic peptide deriv. OTHER NAMES:

CN Ustiloxin A dimethyl ester dihydrochloride

FS PROTEIN SEQUENCE

MF C30 H47 N5 O12 S . 2 Cl H

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

#### ●2 HCl

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

#### REFERENCE 1: 120:14886

- L3 ANSWER 16 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN
- RN 143557-93-1 REGISTRY
- CN Glycine, (.beta.R)-2-[(R)-[(2S,4S)-4-amino-4-carboxy-2-hydroxybutyl]sulfinyl]-.beta.,5-dihydroxy-N-methyl-L-tyrosyl-L-valyl-3-hydroxy-L-isoleucyl-, cyclic (15.fwdarw.3)-ether (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES:
- CN 2-0xa-5,8-diazabicyclo[10.3.1]hexadecane, cyclic peptide deriv.
- CN Glycine, 2-[(4-amino-4-carboxy-2-hydroxybutyl)sulfinyl]-threo.beta.,5-dihydroxy-N-methyl-L-tyrosyl-L-valyl-3-hydroxy-L-isoleucyl-, cyclic (15.fwdarw.3)-ether, [2S-[1(S\*),2R\*,4R\*]]-

#### OTHER NAMES:

- CN Ustiloxin A
- FS PROTEIN SEQUENCE; STEREOSEARCH
- MF C28 H43 N5 012 S
- SR CA
- LC STN Files: BEILSTEIN\*, BIOSIS, CA, CANCERLIT, CAPLUS, MEDLINE, TOXCENTER (\*File contains numerically searchable property data).

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

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### 14 REFERENCES IN FILE CA (1907 TO DATE) 14 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:17720

REFERENCE 2: 129:41400

REFERENCE 3: 129:38537

REFERENCE 4: 126:264317

REFERENCE 5: 123:25336

REFERENCE 6: 121:225960

REFERENCE 7: 121:198163

REFERENCE 8: 121:73249

REFERENCE 9: 121:52013

#### REFERENCE 10: 121:256

L3 ANSWER 17 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN

127102-34-5 REGISTRY Phomopsin A, dimer (9CI) (CA INDEX NAME) CN

OTHER CA INDEX NAMES:

CN2-0xa-5,8-diazabicyclo[10.3.1]hexadecane, cyclic peptide deriv.

PROTEIN SEQUENCE; STEREOSEARCH FS

(C36 H45 Cl N6 O12)2 MF

CI PMS, COM

SR CA

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

CM 1

64925-80-0 CRN

CMF C36 H45 Cl N6 O12

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry. Double bond geometry as shown.

L3 ANSWER 18 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 126061-17-4 REGISTRY

CN Phomopsin A, dimer, pentahydrate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-0xa-5,8-diazabicyclo[10.3.1]hexadecane, cyclic peptide deriv.

FS PROTEIN SEQUENCE; STEREOSEARCH

MF (C36 H45 Cl N6 O12)2 . 5 H2 O

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

### \*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

CM 1

CRN 127102-34-5

CMF (C36 H45 C1 N6 O12)2

CCI PMS

CM 2

CRN 64925-80-0

CMF C36 H45 Cl N6 O12

### \*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry. Double bond geometry as shown.

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|| NHMe

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 112:158910

L3 ANSWER 19 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 110580-02-4 REGISTRY

CN Aspartic acid, 1-[[(3R,4S,7S,10S,11R)-14-chloro-3-ethyl-11,15-dihydroxy-3-methyl-10-(methylamino)-7-(1-methylethyl)-6,9-dioxo-2-oxa-5,8-diazabicyclo[10.3.1]hexadeca-1(16),12,14-trien-4-yl]carbonyl]-L-prolylisoleucyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Oxa-5,8-diazabicyclo[10.3.1]hexadecane, DL-aspartic acid deriv.

CN DL-Aspartic acid, N-[N-[1-[[14-chloro-3-ethyl-11,15-dihydroxy-3-methyl-10-(methylamino)-7-(1-methylethyl)-6,9-dioxo-2-oxa-5,8-diazabicyclo[10.3.1]hexadeca-1(16),12,14-trien-4-yl]carbonyl]-L-prolyl]-DL-isoleucyl]-, [3R-(3R\*,4S\*,7S\*,10S\*,11R\*)]-

FS PROTEIN SEQUENCE

MF C36 H53 Cl N6 O12

SR CA

LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER (\*File contains numerically searchable property data)

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:261242

REFERENCE 2: 107:168352

L3 ANSWER 20 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 89085-54-1 REGISTRY

CN 1-5-Phomopsin A, 5-[(2E)-2,3-didehydroisoleucinamide]- (9CI) (CA INDEX

NAME)

OTHER CA INDEX NAMES:

CN Phomopsin A, 5-[(E)-2,3-didehydroisoleucinamide]-6-de[(E)-2,3-didehydroaspartic acid]-

OTHER NAMES:

CN Isoleucinamide, 3-chloro-erythro-.beta.,5-dihydroxy-N-methyl-L-tyrosyl-3,4-didehydro-L-valyl-3-hydroxy-L-isoleucyl-3,4-didehydro-L-prolyl-2,3-didehydro-, cyclic (15.fwdarw.3)-ether, (E)-

CN Phomopsinamine A

FS PROTEIN SEQUENCE

MF C32 H43 Cl N6 O8

LC STN Files: BEILSTEIN\*, CA, CAPLUS, TOXCENTER (\*File contains numerically searchable property data)

Currently available stereo shown.

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:261242

REFERENCE 2: 107:168352

REFERENCE 3: 107:40303

REFERENCE 4: 100:103882

L3 ANSWER 21 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

N 64925-81-1 REGISTRY

CN Phomopsin B (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-0xa-5,8-diazabicyclo[10.3.1]hexadecane, phomopsin A deriv.

CN Phomopsin A, 1-(erythro-.beta.,3-dihydroxy-N-methyl-L-tyrosine)-OTHER NAMES:

- CN Aspartic acid, erythro-.beta.,3-dihydroxy-N-methyl-L-tyrosyl-3,4-didehydro-L-valyl-3-hydroxy-L-isoleucyl-3,4-didehydro-L-prolyl-(E)-2,3-didehydroisoleucyl-(E)-2,3-didehydro-, cyclic (13.fwdarw.3)-ether
- FS PROTEIN SEQUENCE
- MF C36 H46 N6 O12
- LC STN Files: CA, CAPLUS, TOXCENTER
- \*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

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- 6 REFERENCES IN FILE CA (1907 TO DATE)
- 6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279676

REFERENCE 2: 130:252635

REFERENCE 3: 111:2426

REFERENCE 4: 107:168352

REFERENCE 5: 105:55741

REFERENCE 6: 88:16986

L3 ANSWER 22 OF 22 REGISTRY COPYRIGHT 2003 ACS on STN

RN 64925-80-0 REGISTRY

CN Phomopsin A (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-0xa-5,8-diazabicyclo[10.3.1]hexadecane, cyclic peptide deriv. OTHER NAMES:

- CN 3-Chloro-erythro-.beta.,5-dihydroxy-N-methyl-L-tyrosyl-3,4-didehydro-L-valyl-3-hydroxy-L-isoleucyl-3,4-didehydro-L-prolyl-(E)-2,3-didehydroisoleucyl-(E)-2,3-didehydroaspartic acid cyclic (15.fwdarw.3)-ether
- CN Aspartic acid, 3-chloro-erythro-.beta.,5-dihydroxy-N-methyl-L-tyrosyl-3,4-didehydro-L-valyl-3-hydroxy-L-isoleucyl-3,4-didehydro-L-prolyl-(E)-2,3-didehydroisoleucyl-(E)-2,3-didehydro-, cyclic (15.fwdarw.3)-ether

CN NSC 381839

- FS PROTEIN SEQUENCE; STEREOSEARCH
- DR 126061-16-3
- MF C36 H45 Cl N6 O12
- CI COM
- LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CHEMCATS, CSCHEM, DDFU, DRUGU, EMBASE, MEDLINE, NAPRALERT, RTECS\*, TOXCENTER, VETU

  (\*File contains numerically searchable property data)

\*\*RELATED SEQUENCES AVAILABLE WITH SEOLINK\*\*

Absolute stereochemistry. Double bond geometry as shown.

PAGE 2-A

#### [] NHMe

49 REFERENCES IN FILE CA (1907 TO DATE)

49 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:279676

REFERENCE 2: 134:261242

REFERENCE 3: 134:17720

REFERENCE 4: 133:164285

REFERENCE 5: 131:337315

REFERENCE 6: 131:130273

REFERENCE 7: 130:252635

REFERENCE 8: 130:152150

REFERENCE 9: 126:327140

REFERENCE 10: 124:315326